Cypraea: A List of the Species. II.

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(1 Text figure)

Now, at last, that the beautiful and long awaited book on living cowries by Burgess (1970) has appeared, it seems appropriate to update an earlier analysis (Dono-hue, 1965) of the situation regarding a definitive listing of the valid species of *Cypraea*. Such a list should be of interest to cypraeophiles. Unfortunately, Burgess' apparently definitive treatment of this problem is in incomplete agreement with the latest treatment of the same problem from another source (Schilder, 1969) well known for

its expertise in this genus (s. l.). This lack of agreement probably should have been anticipated. Indeed, there is incomplete agreement where it might have been hoped to exist, e. g., among Schilder, 1965, 1967 and 1969. We therefore choose for treatment below only the two most recent sources cited above.

SCHILDER (1969) lists 170 species and 21 "prospecies," and Burgess (1970) lists 185 species while remarking that 3 more taxa need more study; however, in an ad-

Table 1
Species of Cypraea accepted by both Schilder (1969) and Burgess (1970) [A of Figure 1]

achatidea	childreni	fimbriata	lamarckii	ocellata	scurra
albuginosa	chinensis	friendii	langfordi	onyx	spadicea
algoensis	cicercula	fultoni	lentiginosa	ostergaardi	spurca
amphithales	cinerea	fuscodentata	leucodon	ovum	staphylaea
angustata	citrina	fuscorubra	limacina	owenii	stercoraria
annettae	clandestina	gambiensis	lurida	pallida	stolida
annulus	cohenae	gangranosa	lutea	pallidula	subviridis
arabica	contaminata	gaskoini	lynx	pantherina	sulcidentata
arabicula	coxeni	globulus	macandrewi	picta	surinamensis
argus	cribellum	goodallii	maculifera	piperita	talpa
armeniaca	cribraria	gracilis	mappa	poraria	teramachii
artuffeli	cumingii	granulata	marginalis	porteri	teres
asellus	cylindrica	grayana	marginata	pulchella	tessellata
aurantium	decipiens	guttata	mariae	pulchra	testudinaria
barclayi	declivis	hammondae	martini	pulicaria	teulerei
beckii	depressa	helvola	mauiensis	punctata	tigr i s
bistrinotata	dillwyni	hesitata	mauritiana	pyriformis	turdus
boivinii	diluculum	hirasei	mexicana	pyrum	ursellus
broderipii	edentul a	hirundo	microdon	quadrimaculata	valentia
camelo pardalis	e glantina	histrio	midwayensis	rabaulensis	ventriculus
capensis	englerti	hungerfordi	miliaris	rashleighana	venusta
caputdraconis	erosa	interrupta	minoridens	reevei	vitellus
caputserpentis	errones	irrorata	moneta	roberts i	vredenburgi
carneola	erythraeensis	isabella	mus	rosselli	walkeri
catholicorum	esontro pi a	katsuae	nigro punctata	sanguinolenta	xanthodon
caurica	exusta	kieneri	nivosa	saulae	zebra
cernica	felina	labroline ata	nucleus	schilderorum	ziczac
cervus					zonaria

Table 2
Taxa of Cypraea in disagreement

	status in:		reference	
taxon	Schilder, 1969	Burgess, 1970	in Figure 1	
thersites	species	doubtful (= friendii?)	В	
bicolor	species	variation of piperita	C	
catei	species	variation of venusta	C	
queenslandica	species	variation of hirasei	C	
hartsmithi	species	not mentioned	D	
stohleri	species	not mentioned	D	
aequinoctialis	prospecies	species	E	
bregeriana	prospecies	species	E	
cervinetta	prospecies	species	E	
coloba	prospecies	species	E	
eburnea	prospecies	species	E	
fernandoi	prospecies	species	E	
petitiana	prospecies	species	E	
semiplota	prospecies	species	E	
serrulifera	prospecies	species	E	
subteres	prospecies	species	E	
yaloka	prospecies ¹	species	E	
acicularis	prospecies	doubtful (= spurca?)	F	
nebrites	prospecies	doubtful (= erosa?)	F	
adusta	prospecies	variation of onyx	G	
dorsalis	prospecies	variation of subviridis	G	
fischeri	prospecies	synonym of gaskoini	G	
listeri	prospecies	variation of felina	G	
notata	prospecies	synonym of gracilis	G	
raysummersi	prospecies	variation of hammondae	G	
superstes	prospecies	synonym of martini	G	
tomlini	prospecies	variation of cernica	G	
cassiaui	subspecies	species	H	
comptonii	cline	species	H	
kuroharai	subspecies	species	H	
leviathan	mutant	species	H	
luchuana	cline	species	H	
obvelata	cline	species	Н	
summersi	cline	species	H	
margarita	cline	doubtful (= cicercula?)	I	
dayritiana	not mentioned	species	J	
musumea	not mentioned	species		
thomasi	not mentioned	species	J	
gondwanalandensis	(new)	species	K	
steineri	(new)	species	K	

¹ as humphreysii (see Burgess, p. 86)

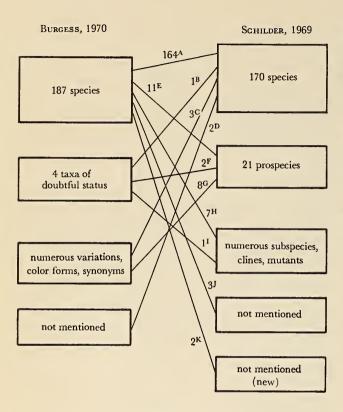


Figure 1
Differences in assignments of 204 taxa of Cypraea

dendum, Burgess accepts 4 sp. nov., places 1 of the 185 into the synonymy (*latior*) and 1 of the 185 into the doubtful classification (*nebrites*). The net opinion of

Burgess is thus 187 species plus 4 provisional or doubtful species. The fact that 170+21=187+4 is merely a numerical coincidence: the differences between the Schilder and Burgess lists are far more subtle. A complete analysis of the two lists is presented in Figure 1. The details of the differences which appear in Figure 1 are presented in Tables 1 and 2.

The two authorities agree on the status of 164 taxa as species. It is interesting that of the 21 prospecies of Schilder, Burgess accepts 11 as species, considers 2 doubtful, and relegates 8 to synonymy. It is also interesting that 2 of the species recognized by Schilder are not mentioned by Burgess, while 3 of the species recognized by Burgess are not mentioned by Schilder. The overall picture, however, is on the hopeful side, for there appears to be less confusion than there was as recently as 5 years ago.

Literature Cited

Burgess, C. M.

1970. The living cowries. A. S. Barnes & Co., Cranbury,
 N. J. pp. 1 - 389; plts. 1 - 44

DONOHUE, JERRY

1965. *Cypraea*: a list of the species. The Veliger **7** (4): 219 - 224 (1 April 1965)

SCHILDER, FRANZ ALFRED

1965. The geographical distribution of cowries (Mollusca: Gastropoda) The Veliger 7 (3): 171 - 183; 2 maps

(1 January 1965)

1969. Zoogeographical studies on living cowries. The Veliger 11 (4): 367-377; 1 map (1 April 1969)

SCHILDER, MARIA

1967. Length, breadth, and dentition in living cowries. The Veliger 9 (4): 369 - 376; 1 diagram (1 April 1967)

